

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865491

Luminaire Tested: PRLX-2001-S-930-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

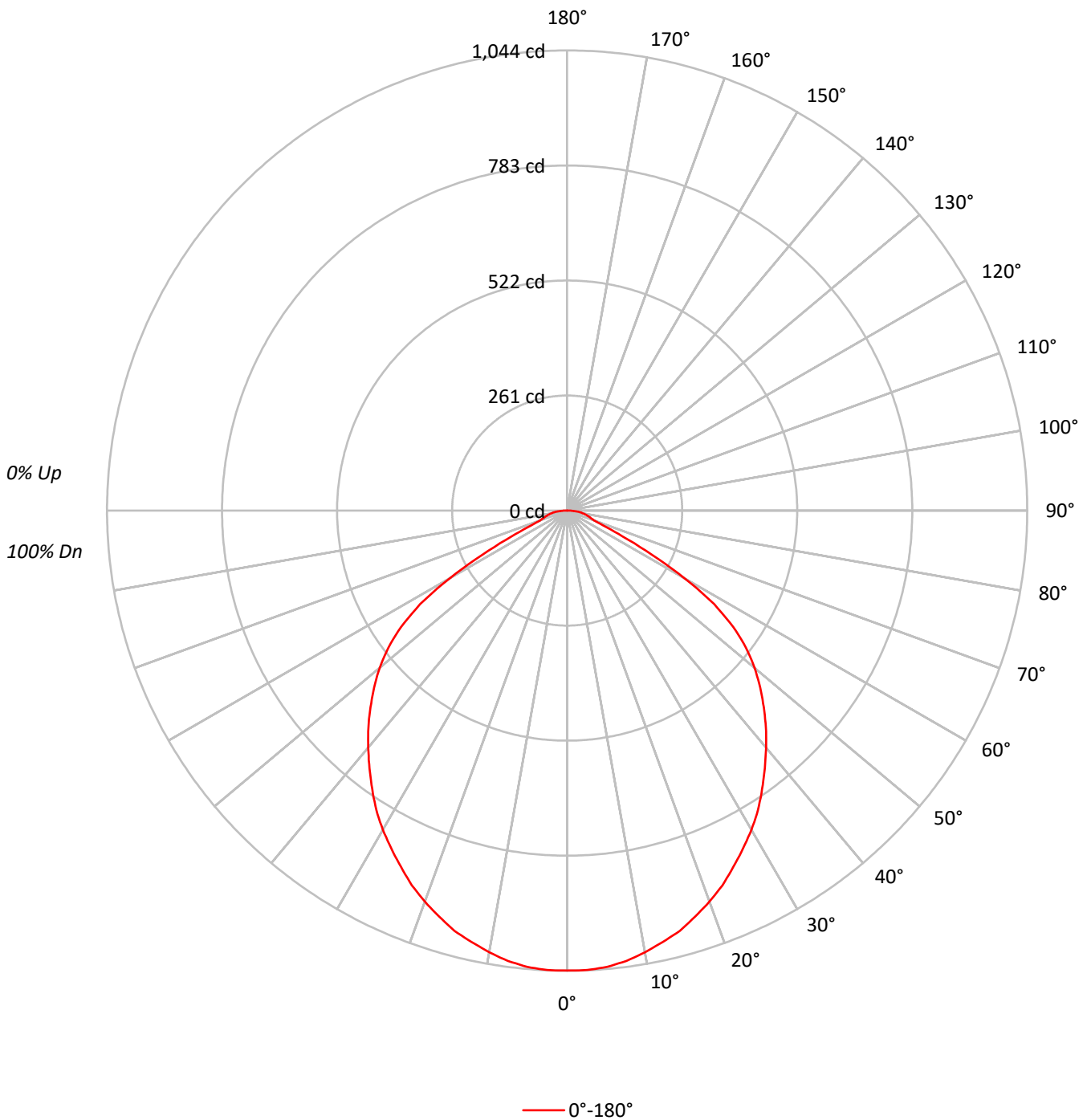
Lumens per Lamp: N/A
Luminaire Lumens: 2387.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17020
5°	17014
10°	16853
15°	16671
20°	16387
25°	16056
30°	15747
35°	15357
40°	14949
45°	14550
50°	14088
55°	13086
60°	10076
65°	5337
70°	3090
75°	3132
80°	3447
85°	4042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	4.1
10°-20°	277.9	11.6
20°-30°	411.3	17.2
30°-40°	482.5	20.2
40°-50°	486.6	20.4
50°-60°	401.6	16.8
60°-70°	154.7	6.5
70°-80°	52.8	2.2
80°-90°	22.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	787.6	33.0
0°-40°	1270.1	53.2
0°-60°	2158.3	90.4
0°-90°	2387.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1039	99
15°	987	278
25°	892	411
35°	771	483
45°	631	487
55°	460	402
65°	138	155
75°	50	53
85°	22	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1043.5
2.5°	1043.5
5°	1039.2
7.5°	1030.5
10°	1017.6
12.5°	1002.4
15°	987.3
17.5°	965.7
20°	944.1
22.5°	920.3
25°	892.2
27.5°	864.2
30°	836.1
32.5°	805.8
35°	771.3
37.5°	736.7
40°	702.1
42.5°	667.6
45°	630.8
47.5°	594.1
50°	555.2
52.5°	512.0
55°	460.2
57.5°	395.4
60°	308.9
62.5°	216.0
65°	138.3
67.5°	88.6
70°	64.8
72.5°	56.2
75°	49.7
77.5°	43.2
80°	36.7
82.5°	30.2
85°	21.6
87.5°	10.8
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.90	22.41	21.27	22.73	23.04	20.90	22.41	21.27	22.73	23.04
	3H	21.04	22.39	21.42	22.72	23.08	21.04	22.39	21.42	22.72	23.08
	4H	21.10	22.36	21.50	22.71	23.09	21.10	22.36	21.50	22.71	23.09
	6H	21.19	22.34	21.60	22.71	23.10	21.19	22.34	21.60	22.71	23.10
	8H	21.23	22.33	21.66	22.72	23.12	21.23	22.33	21.66	22.72	23.12
	12H	21.27	22.32	21.70	22.71	23.14	21.27	22.32	21.70	22.71	23.14
4H	2H	20.94	22.20	21.34	22.55	22.92	20.94	22.20	21.34	22.55	22.92
	3H	21.16	22.19	21.57	22.59	22.99	21.16	22.19	21.57	22.59	22.99
	4H	21.27	22.19	21.71	22.61	23.05	21.27	22.19	21.71	22.61	23.05
	6H	21.44	22.24	21.90	22.68	23.15	21.44	22.24	21.90	22.68	23.15
	8H	21.53	22.27	21.99	22.72	23.18	21.53	22.27	21.99	22.72	23.18
	12H	21.61	22.28	22.10	22.76	23.23	21.61	22.28	22.10	22.76	23.23
8H	4H	21.27	22.02	21.73	22.46	22.93	21.27	22.02	21.73	22.46	22.93
	6H	21.50	22.12	22.00	22.61	23.09	21.50	22.12	22.00	22.61	23.09
	8H	21.64	22.20	22.16	22.71	23.20	21.64	22.20	22.16	22.71	23.20
	12H	21.80	22.30	22.31	22.79	23.36	21.80	22.30	22.31	22.79	23.36
12H	4H	21.26	21.92	21.74	22.40	22.87	21.26	21.92	21.74	22.40	22.87
	6H	21.50	22.06	22.01	22.57	23.06	21.50	22.06	22.01	22.57	23.06
	8H	21.69	22.19	22.20	22.68	23.24	21.69	22.19	22.20	22.68	23.24